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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/684,850	10/14/2003	Qinghua Li	1000-0017	- 3515		
The Law Offic	7590 03/07/2007 ees of		EXAMINER			
John C. Scott,			VO, DON NGUYEN			
c/o PortfolioIP P.O. Box 5205			ART UNIT	PAPER NUMBER		
Minneapolis, N		·	2611	2611		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE			
3 MONTHS		03/07/2007	PAF	PAPER		

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

					SJ			
Office Action Summary		Application	ı No.	Applicant(s)				
		10/684,850	)	LI ET AL.				
		Examiner		Art Unit				
		DON N. VO		2611				
Pe	The MAILING DATE of this communication app eriod for Reply	ears on the	cover sheet with th	e correspondence a	ddress			
	A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THI 36(a). In no even will apply and will e, cause the applic	S COMMUNICATI  tt, however, may a reply be  expire SIX (6) MONTHS frecation to become ABANDO	ON. e timely filed om the mailing date of this NED (35 U.S.C. § 133).				
St	atus							
Di	3) Since this application is in condition for alloward closed in accordance with the practice under Esposition of Claims  4) Claim(s) 1-26 is/are pending in the application.	is action is <b>FINAL</b> . 2b) This action is non-final.  nce this application is in condition for allowance except for formal matters, prosecution as to seed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  of Claims						
ĮΑ	5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-26</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	r election red	quirement.					
Π	9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination and a 25 H.S.C. S.440.	epted or b) drawing(s) be tion is required	held in abeyance. Signification in the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 C	, ,			
۲r	iority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
1)	achment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 11/3/03 & 9/2/05.	5	1) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date				

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### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7, 9-13, 15-23, 25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Crawford et al (US 2003/0002471).

Regarding claims 1, 2, 7, 9, 10, and 15-21, Crawford, as shown in figures 1, 16, 17, and 18A, teaches an OFDM communication system wherein the antenna is selected from a group of antennas based on the symbol error rate. See paragraphs [0016] – [0019]; [0047] – [0049]; [0093]; and [0137].

Regarding claims 3-6, 11-13, 22, and 23, Crawford further teaches averaging the symbol error rate. See paragraphs [0095]; [0105]; 0106]; [0119]; [0120]; and [0171].

Regarding claims 25, Crawford further teaches the system is part of wireless access point. See paragraph [0041].

Regarding claims 26, Crawford further teaches the system can be used in wireless local area network which inherently including NIC. See paragraph [0044].

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## Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 8, 14 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crawford et al (US 2003/0002471) in view of Liang et al (US 2004/0204105).

Crawford teaches all subject matter claimed except for using the system to support the CDMA environment. See section 2 above. However, CDMA is well known in the art of digital communications. For example see paragraph [0004] of Liang that teaches variety of possible communications including CDMA.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the communication system of Crawford et

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al to support the CDMA communications since it is just an alternation way of wirelessly communicating information.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on MON - FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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